VOLUME CONTENTS (VOLUME 64 2001)

Prostaglandin E_2 concentrations in naturally occurring canine cancer 1
S. I. Mohammed, K. Coffman, N. W. Glickman, M. G. Hayek, D. J. Waters, D. Schlittler, D. B. DeNicola, D. W. Knapp

Thromboxane-B2, prostaglandin-E2 and hypertension in the rat 2-kidney 1-clip model: a possible mechanism of the garlic induced hypotension 5
K. K. Al-Qattan, I. Khan, M. A. Alnaqeeb, M. Ali

Effects of essential fatty acid deficiency and supplementation with docosahexaenoic acid (DHA; 22 : 6n-3) on cellular fatty acid compositions and fatty acyl desaturation in a cell culture model 11
D. R. Tocher, J. R. Dick

Effects of indomethacin, NS-398 (a selective prostaglandin H synthase-2 inhibitor) and protein synthesis inhibitors on prostaglandin production by the guinea-pig placenta 23
H. Aitken, N. L. Poyser

The levels of lipid peroxidation products in bovine retained and not retained placenta 33
M. Kankofer

Protective action of arachidonic acid against alloxan-induced cytotoxicity and diabetes mellitus 37
Y. Suresh, U. N. Das

Oxidant stress, anti-oxidants and essential fatty acids in South Indian vegetarians and non-vegetarians 53
V. Manjari, Y. Suresh, M. M. Sailaja Devi, U. N. Das

The effects of fatty acyl CoA esters on the formation of prostaglandin and arachidonoyl-CoA formed from arachidonic acid in rabbit kidney medulla microsomes 61
S. Sakuma, Y. Fujimoto, Y. Katoh, A. Kitao, T. Fujita

Docosahexaenoic acid, a major constituent of fish oil diets, prevents activation of cyclin-dependent kinases and S-phase entry by serum stimulation in HT-29 cells 67
Z.-Y. Chen, N. W. Istfan

Errata 74

Comparative studies on lipid peroxidation of microsomes and mitochondria obtained from different rat tissues: effect of retinyl palmitate 75
V. A. Piergiacomi, A. Palacios, A. Catalá

A novel derivative pentacyclic triterpene and ω3 fatty acid [Lupeol-EPA] in relation to lysosomal enzymes glycoproteins and collagen in adjuvant induced arthritis in rats 81
R. M. Latha, M. Lenin, M. Rasool, P. Varalakshmi

Indomethacin increases 15-PGDH mRNA expression in HL60 cells differentiated by PMA 87
M. Frenkian, E. Pidoux, C. Baudoin, N. Segond, A. Jullienne

Volume-induced natriuresis in healthy women: renal metabolism of prostacyclin and thromboxane, and physiological role of prostanoids 95
G. C. Agnoli, R. Borgatti, M. Cacciari, P. Lenzi, M. Marinelli, L. Stipo

Breastfeeding duration, milk fat composition and developmental indices at 1 year of life among breastfed infants 105
C. Agostoni, F. Marangoni, A. M. Lammardo, M. Giovannini, E. Riva, C. Galli

Biochemical effects of supplemented long-chain polyunsaturated fatty acids in hyperphenylalaninemia 111
C. Agostoni, S. Scaglioni, M. Bonvissuto, M. G. Bruzzese, M. Giovannini, E. Riva

Mechanisms involved in prostaglandin-induced increase in bone resorption in neonatal mouse calvaria 117
C. R. Gardner, R. Blanqué, C. Cottereaux

Modulation of PGE_2 generation in the diabetic embryo: effect of nitric oxide and superoxide dismutase 127
A. Jawerbaum, D. Sinner, V. White, C. Pustovrh, E. Capobianco, M. A. F. Gimeno, E. T. Gonzalez

Gestational age-dependent effects of lipopolysaccharide on prostaglandin production by murine decidual caps 135
T. A. Sato, J. A. Keelan, D. K. Gupta, M. D. Mitchell

Role of γ-linolenic acid in counteracting doxorubicin-induced damage in cultured rat cardiomyocytes 139
S. Hrelia, A. Bordoni, P. L. Biagi

Modulation of intestinal vitamin D receptor availability and calcium ATPase activity by essential fatty acids 147
F. Leonard, M. Haag, M. C. Kruger

Dietary polyunsatured fatty acids (PUFA) differentially modulate melamine-induced preneoplastic urothelial proliferation and apoptosis in mice 151
D. C. Cremonezzi, R. A. Silva, M. del Pilar Díaz, M. A. Valentich, A. R. Eynard

Transcardiac 8-iso-prostaglandin $F_{2\alpha}$ generation from acute myocardial infarction heart: insight into abrupt reperfusion and oxidant stress 161
Y. Kijima, K. Hashimura, Y. Matsu-ura, Y. Kato, T. Yasuda, T. Ueda, Y. Orita, M. Fukunaga

6-oxo-$PGF_{1\alpha}$ and 8-epi-$PGF_{2\alpha}$ in the arterial wall layers of various species: a comparison between intact and atherosclerotic areas 167
A. Oguogho, H. Kritz, O. Wagner, H. Sinzinger

Could platelet activating factor play a role in developmental dyslexia? 173
K. E. Taylor, A. J. Richardson, J. F. Stein

The effect of dietary polyunsaturated fatty acid on insulin sensitivity and lipid metabolism in Otsuka Long-Evans Tokushima Fatty (OLETF) rats 181
T. Sasagawa, K. Ishii, K. Hasuda, M. Kubota, Y. Ota, M. Okita

Brain and hippocampus fatty acid composition in phospholipid classes of aged-relative cognitive deficit rats 189
L. Ulmann, V. Mimouni, S. Roux, R. Porsolt, J.-P. Poisson

Comparative effects of beraprost, a stable analogue of prostacyclin, with PGE_1, nitroglycerin and nifedipine on canine model of vasoconstrictive pulmonary hypertension 197
M. Tamura, H. Kurumatani, T. Matsushita

Characterization of the prostaglandin receptors in human osteoblasts in culture 203
P. Sarrazin, G. Bkaily, R. Haché, C. Patry, R. Dumais, F. A. C. Rocha, A. J. de Brum-Fernandes

Evaluation of classical NSAIDs and COX-2 selective inhibitors on purified ovine enzymes and human whole blood 211
X. de Leval, J. Delarge, P. Devel, P. Neven, C. Michaux, B. Masereel, B. Pirotte, J.-L. David, Y. Henrotin J.-M. Dogné

Evaluation of the activity and localization of 15-Lipoxygenase-1 after introduction into human colorectal carcinoma Caco-2 cells 217
L. C. Hsi, H. Kamitani, J. A. Cornicelli, T. E. Eling

Arachidonyl trifluoromethyl ketone induces lipid body formation in leukocytes 227
P. T. Bozza, P. F. Weller

Role of prostanoids and endothelins in the prevention of cyclosporine-induced nephrotoxicity 231
I. E. Darlametsos, D. D. Varonos

Peroxisome proliferator-activated receptor-γ expression in human malignant and normal brain, breast and prostate-derived cells 241
J. O. Nwankwo, M. E. C. Robbins

Cytosolic phospholipase A_2 and 15-hydroxyprostaglandin dehydrogenase mRNA expression in murine uterine and gestational tissues during late pregnancy 247
T. A. Sato, D. K. Gupta, J. A. Keelan, K. W. Marvin, M. D. Mitchell

Nitric oxide and endothelin relationship in intestinal ischemia/reperfusion injury (II) 253
Ş. K. Özel, M. Yüksel, G. Haklar, Ç. U. Durakbaşa, T. E. Dagli, A. Ö. Aktan

The response of muscle interstitial prostaglandin E_2 (PGE_2), prostacyclin I_2 (PGI_2) and thromboxane A_2 (TXA_2) levels during incremental dynamic exercise in humans determined by in vivo microdialysis 259
M. Karamouzis, I. Karamouzis, E. Vamvakoudis, G. Ampatzidis, K. Christoulas, N. Angelopoulou, K. Mandroukas

Effects of short-term dietary administration of marginal levels of vitamin B_6 and fish oil on lipid composition and antioxidant defences in rat tissues 265
L. Cabrini, R. Bergami, M. Maranesi, A. Carloni, M. Marchetti, B. Tolomelli

Effect of arachidonic acid-rich oil on lipids and arachidonate metabolites in ethanol-treated rats 273
M. Okita, T. Sasagawa, Y. Ohta, T. Kaneyuki, K Suzuki

Dietary n-3 and n-6 polyunsaturated oils and airway contractility 281
M. Y. Abeywardena, L. T. Jablonskis, R. J. Head

The effect of revascularisation of an ischaemic lower limb on leukotriene E4 production 289
P. Rossi, P. Kuukasjärvi, J. P. Salenius, A. Riutta

Effect of low-dose aspirin in combination with stable fish oil on whole blood production of eicosanoids 291
K. Engström, R. Wallin, T. Saldeen

Do human platelets express COX-2? 299
R. Reiter, U. Resch, H. Sinzinger

Increase of isoprostane 8-epi-$PGF_{2\alpha}$ after restarting smoking 307
F. Chehne, A. Oguogho, G. Lupattelli, A. C. Budinsky, B. Palumbo, H. Sinzinger

Involvement of inducible isoforms of COX and NOS in streptozotocin-pancreatic damage in the rat: interactions between nitridergic and prostanoid pathway 311
E. González, J. Roselló-Catafau, A. Jawerbaum et al.

Urinary PGE_2 concentrations measured by a new EIA method in infants with urinary tract infections or renal malformations 317
L. Cuzzolin, P. Mangiarotti, V. Fanos

Plant sterols regulate rat vascular smooth muscle cell growth and prostacyclin release in culture 323
A. B. Awad, A. J. Smith, C. S. Fink

VOLUME CONTENTS (VOLUME 65 2001)

Plasma fatty acid levels in autistic children 1
S. Vancassel, G. Durand, C. Barthélémy, B. Lejeune, J. Martineau, D. Guilloteau, C. Andrès, S. Chalon

Bradykinin and electrical stimulation increase prostaglandin production in the rat vas deferens 9
H. A. Peredo, S. M. Celuch

Profile of eicosanoids produced by human saphenous vein endothelial cells and the effect of dietary fatty acids 15
P. Urquhart, S. M. Parkin, A. Nicolaou

Effects of conjugated linoleic acids and docosahexaenoic acid on rat liver and reproductive tissue fatty acids, prostaglandins and matrix metalloproteinase production 23
M. A. Harris, R. A. Hansen, P. Vidsudhiphan, J. L. Koslo, J. B. Thomas, B. A. Watkins, K. G. D. Allen

Stimulated release of arachidonic acid from rat liver cells by celecoxib and indomethacin 31
L. Levine

Essential fatty acids as possible mediators of the actions of statins 37
U. N. Das

Effect of a cysteinyl leukotriene antagonist, pranlukast hydrate, on acetaldehyde-induced bronchoconstriction in asthmatic patients 41
S. Myou, M. Fujimura, Y. Kamio, T. Kita, N. Katayama, M. Abo, Y. Yoshimi, M. Nishitsuji, S. Nomura, T. Hashimoto, S. Nakao

Regular ingestion of opuntia robusta lowers oxidation injury 45
A. Budinsky, R. Wolfram, A. Oguogho, Y. Efthimiou, Y. Stamatopoulos, H. Sinzinger

Effect of three low-dose fish oil supplements, administered during pregnancy, on neonatal long-chain polyunsaturated fatty acid status at birth 51
F. V. Velzing-Aarts, F. R. M. van der Klis, F. P. L. van der Dijs, C. M. van Beusekom, H. Landman, J. J. Capello, F. A. J. Muskiet

Ibuprofen attenuates early lung injury in endotoxemic, neutropenic rats 59
K. M. Daphtary, S. M. Heidemann, M. Glibetic

Activity of a novel dual thromboxane A_2 receptor antagonist and thromboxane synthase inhibitor (BM-573) on platelet function and isolated smooth muscles 67
S. Rolin, J. M. Dogné, C. Michaux, J. Delarge, B. Masereel

Angiotensin II stimulates $PGF_{2\alpha}$ release in cultured neonatal rat ventricular myocytes via L-type calcium channels 73
G. K. Oriji

Immunohistochemical localization of the prostacyclin receptor (IP) human bone 79
I. Fortier, C. Patry, M. Lora, R. Samadfan, A. J. de Brum-Fernandes

Analysis of urinary prostacyclin and thromboxane/prostacyclin ratio in patients with rheumatoid arthritis using gas chromatography/selected ion monitoring 85
T. Hishinuma, H. Nakamura, T. Sawai, T. Mitomo, H. Inoue, F. Matsumoto, M. Mizugaki

Dietary polyunsaturated fatty acid and antioxidant modulation of vascular dysfunction in the spontaneously hypertensive rat 91
M. Y. Abeywardena, R. J. Head

F_2-isoprostane and prostaglandin $F_{2\alpha}$ metabolite excretion rate and day to day variation in healthy humans 99
J. Helmersson and S. Basu

Improvement of respiratory function by bosentan during endotoxic shock in the pig 103
M. Albertini, B. Ciminaghi, S. Mazzola, M. G. Clement

Hypothesis: can glucose-insulin-potassium regimen in combination with polyunsaturated fatty acids suppress lupus and other inflammatory conditions? 109
U. N. Das

Erratum 115

Opioid effects on glucose and eicosanoid metabolism in isolated uterus of ovariectomized and non-ovariectomized restricted diet rats 117
M. L. Campos, S. M. Casalino-Matsuda, J. A. Linares, Adolfo Goldraij

Prostaglandin E_2 modulation of vascular endothelial growth factor production in murine macrophages 123
M. Mukutmoni, N. E. Hubbard, K. L. Erickson

Increased synthesis of thromboxane A_2 and expression of procoagulant activity by monocytes in response to arachidonic acid in diabetes mellitus 133
M. Konieczkowski, V. A. Skrinska

Sphingosine-1-phosphate effects on PKC isoform expression in human osteoblastic cells 139
J. D. Lampasso, A. Kamer, J. Margarone III, R. Dziak

Fatty acid composition of the milk lipids of Nepalese women: correlation between fatty acid composition of serum phospholipids and melting point 147
R. H. Glew, Y-S. Huang, T. A. Vander Jagt, L-T. Chuang, S. K. Bhatt, M. A. Magnussen, D. J. VanderJagt

Endothelin involvement in respiratory centre activity 157
M. Albertini, C. L. Lafortuna, B. Ciminaghi, S. Mazzola, M. G. Clement

Influence of antioxidative vitamins A, C and E on lipid peroxidation in BOP-induced pancreatic cancer in Syrian hamsters 165
F. A. Wenger, M. Kilian, J. Ridders, P. Stahlknecht, I. Schimke, H. Guski, C. A. Jacobi, J. M. Müller

Identification of a tyrosine kinase-phosphorylated protein in arachidonic acid- and Prostaglandin A_2-treated cells in vitro 173
A. M. Joubert, A. Panzer, F. Joubert, M-L. Lottering, P. C. Bianchi, P. J. du Toit, J. C. Seegers

Effects of nitric oxide donor and inhibitor on prostaglandin E_2-like activity, malondialdehyde and reduced glutathione levels after skeletal muscle ischemia-reperfusion 179
H. Sayan, A. Babül, B. Ugurlu

Surfactant protein A inhibits the non-enzymatic lipid peroxidation of porcine lung surfactant 185
O. Blanco, A. Catalá

Relationship between thromboxane/prostacyclin ratio and diabetic vascular complications 191
T. Hishinuma, H. Tsukamoto, K. Suzuki, M. Mizugaki

Effect of corticosteroids and eicosapentaenoic acid/docosahexaenoic acid on pro-oxidant and anti-oxidant status and metabolism of essential fatty acids in patients with glomerular disorders 197
U. N. Das, I. Krishna Mohan, T. Ravi Raju

Dietary γ-linolenic acid dose-dependently modifies fatty acid composition and immune parameters in rats 205
S. Kaku, K. Ohkura, S. Yunoki, M. Nonaka, H. Tachibana, M. Sugano, K. Yamada

Effects of intravenous oxygen on prostacyclin and thromboxane formation in patients with peripheral occlusive arterial disease 211
D. O. Stichtenoth, F. J. Kreutzer, F.-M. Gutzki, D. Tsikas, V. Nowak, J. C. Frölich

Expression of adipogenesis markers in a murine stromal cell line treated with 15-deoxy $\Delta^{12,14}$-prostaglandin J_2, interleukin-11, 9-cis retinoic acid and vitamin K_2 215
V. Garcia Palacios, I. Morita, S. Murota

PGI_2 analogue mitigates the progression rate of renal dysfunction improving renal blood flow without glomerular hyperfiltration in patients with chronic renal insufficiency 223
T. Fujita, Y. Fuke, A. Satomura, M. Hidaka, I. Ohsawa, M. Endo, K. Komatsu, H. Ohi

Stimulated release of arachidonic acid by agonists of the peroxisome proliferator-activated receptor and retinoic acid receptors 229
L. Levine

Antidepressants, eicosanoids and the prevention and treatment of cancer. A Review 233
J. Lieb

Study of the paraoxonase and platelet-activating factor acetylhydrolase activities with aging 241
C. Milochevitch, A. Khalil

Regulation of prostaglandin biosynthesis in dispersed choriodecidual cells in culture 247
K. W. Marvin, M. D. Mitchell

Pharmacology of functional endogenous IP prostanoid receptors in NCB-20 cells: comparison with binding data from human platelets 253
J. Y. Crider, S. X. Xu, N. A. Sharif

Nitric oxide in CsA-induced hypertension: role of β-adrenoceptor antagonist and thromboxane A_2 259
G. K. Oriji, N. Schanz

Attenuation of oxalate-induced nephrotoxicity by eicosapentaenoate–lipoate (EPA–LA) derivative in experimental rat model 265
M. Lenin, A. Thiagarajan, M. Nagaraj, P. Varalakshmi

Determination of 9α,11β-prostaglandin F_2 in human urine. Combination of solid-phase extraction and radioimmunoassay 271
I. Mucha, A. Riutta

Flavonoids differentially inhibit guinea pig epidermal cytosolic phospholipase A_2 281
H. P. Kim, H. T. Pham, V. A. Ziboh

Differential mRNA expression of prostaglandin receptor subtypes in macrophage activation 287
N. E. Hubbard, S-H. Lee, D. Lim and K. L. Erickson

Uptake and metabolic conversion of saturated and unsaturated fatty acids in Hep2 human larynx tumor cells 295
L. Albino, M. P. Polo, M. G. de Bravo, M. J. T. de Alaniz

Difference in urinary 11-dehydro TXB_2 and LTE_4 excretion in patients with rheumatoid arthritis 301
H. Nakamura, T. Hishinuma, N. Suzuki, S. Chiba, H. Tsukamoto, M. Takabatake, T. Sawai, T. Mitomo, H. Inoue, F. Matsumoto, M. Mizugaki

Subject Index 307

Author Index 312

Copyright © 2001 Harcourt Publishers

ISSN 0952-3278

All rights reserved. Apart from fair dealing for the purpose of research or private study, or criticism or review, as permitted under the Copyright, Designs and Patents Act, 1988, this publication may only be reproduced, stored or transmitted, in any form or by any means, with the prior written permission of the publishers (Churchill Livingstone, Robert Stevenson House, 1–3 Baxter's Place, Leith Walk, Edinburgh EH1 3AF) or in the case of reprographic reproduction in accordance with the terms of licences issued by the Copyright Licensing Agency Ltd, 90 Tottenham Court Road, London W1P 9HE.

Printed and bound at Bell and Bain, Glasgow, UK.